DEPARTMENT OF VETERANS AFFAIRS SYRACUSE VA MEDICAL CENTER 800 IRVING AVE SYRACUSE, NY 13210

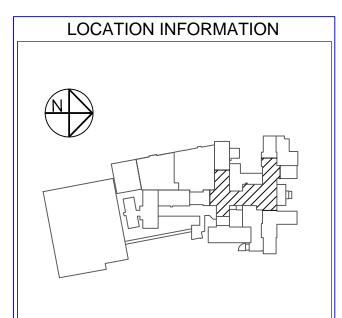


REPLACE DETERIORATED VAV BOXES PROJECT: 528A7-13-724

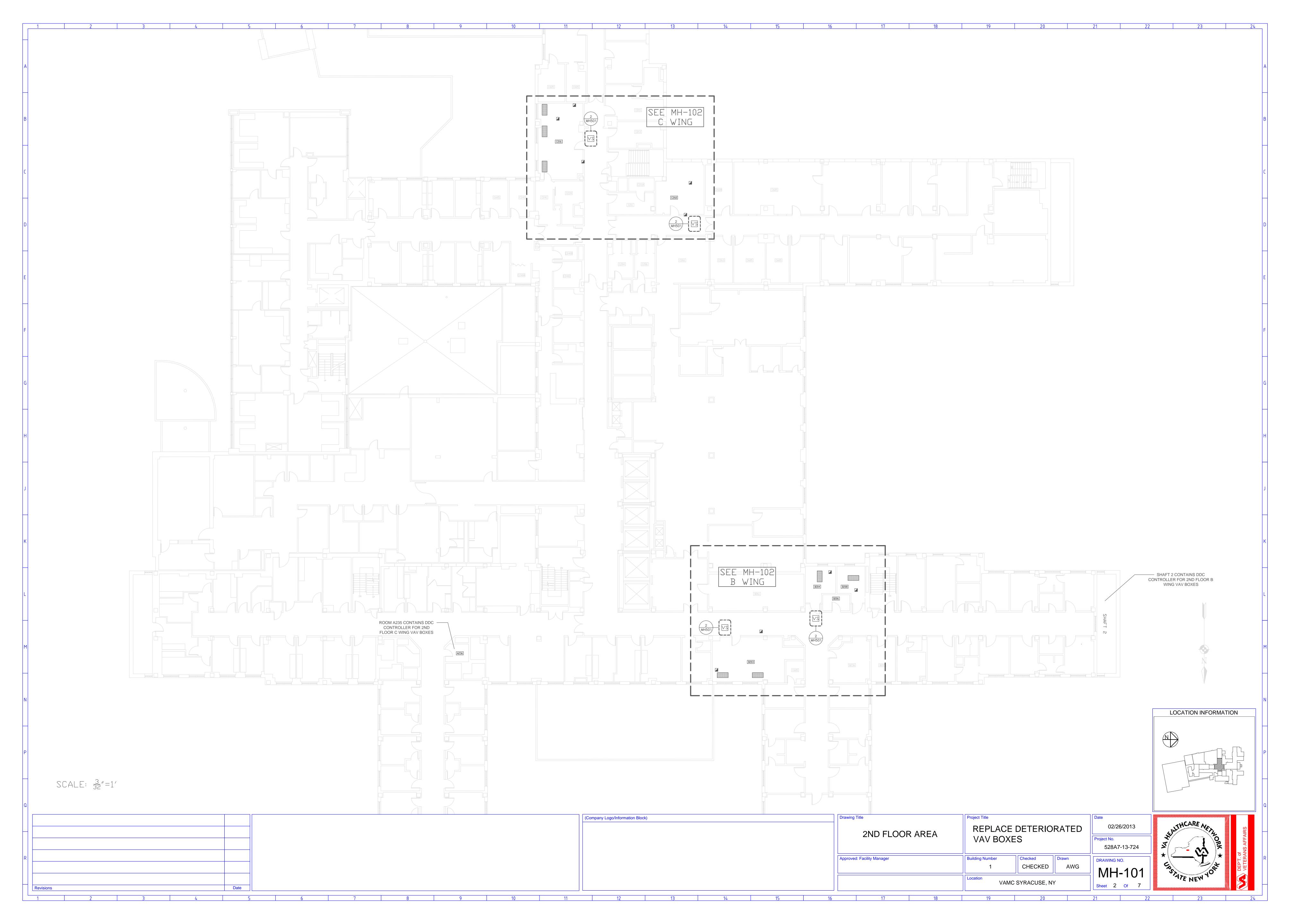
Scope of Work:

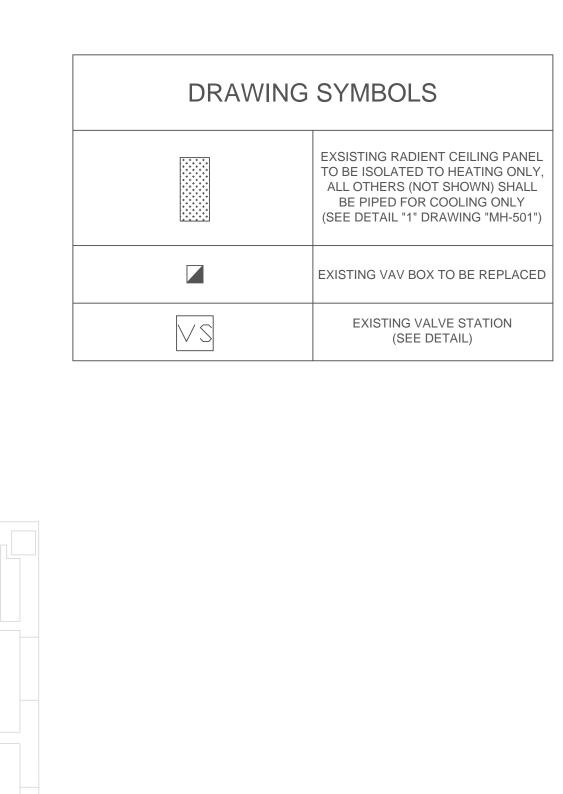
This project will replace existing pneumatically controlled Variable Air Volume (VAV) boxes that no longer function properly due to the lack of pneumatic air or pneumatic thermostats. New electric actuated and digitally controlled VAV boxes shall replace the existing VAVs. The new VAVs shall be integrated into the existing building automation system to allow for proper space temperature control, status, and unoccupied setbacks. The contractor shall supply all labor, materials, and equipment necessary for a complete and usable system and in accordance with the plans and specifications.

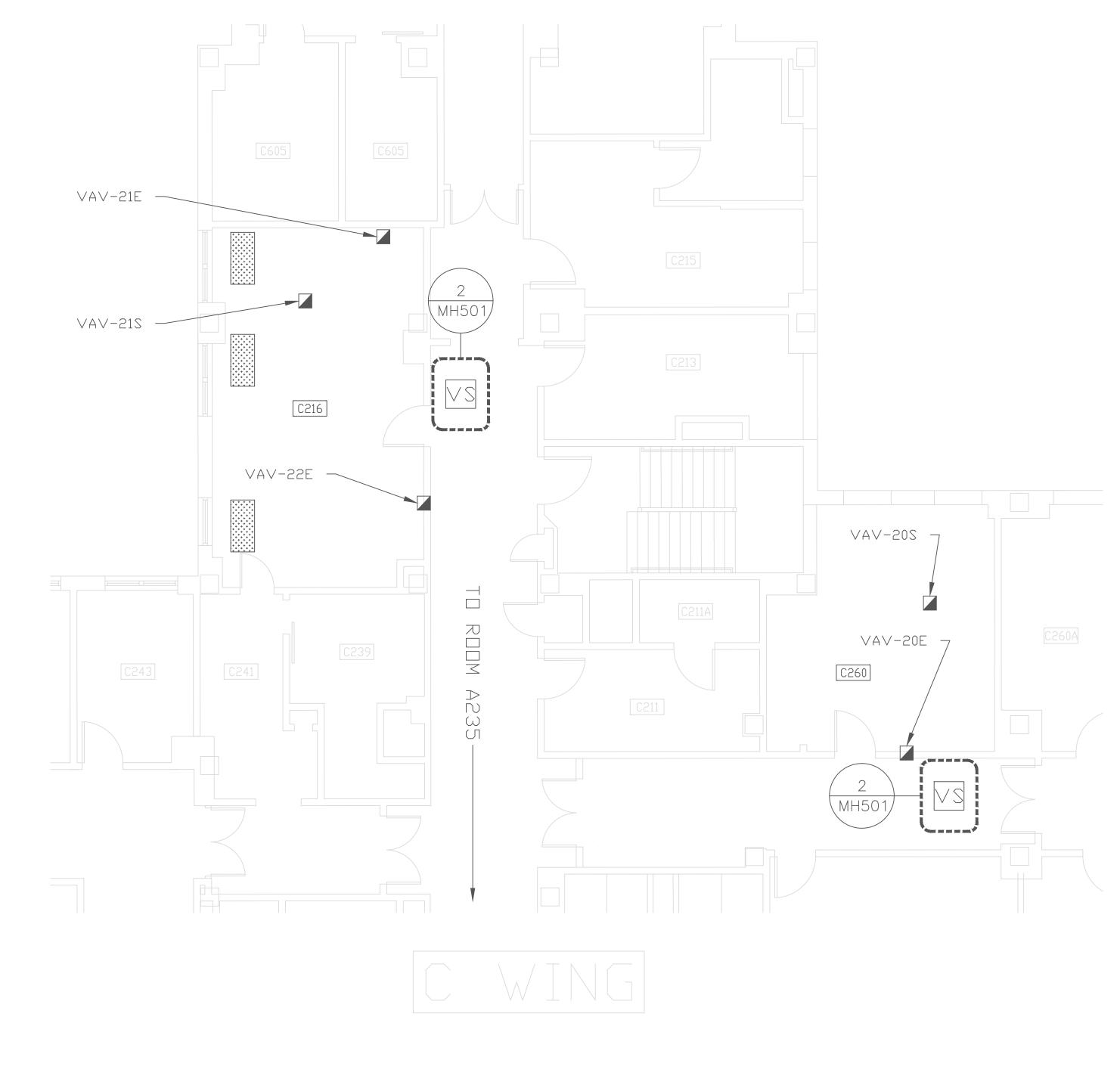
INDEX							
SHEET NUMBER	CONTENT						
G-001	COVER SHEET						
MH-101	2ND FLOOR AREA						
MH-102	2ND FLOOR PIPING AND DUCTWORK						
MH-103	6TH FLOOR PIPING AND DUCTWORK						
MH-104	8TH FLOOR PIPING AND DUCTWORK						
MH-501	HVAC DETAILS						
MH-601	EQUIPMENT SCHEDULE						

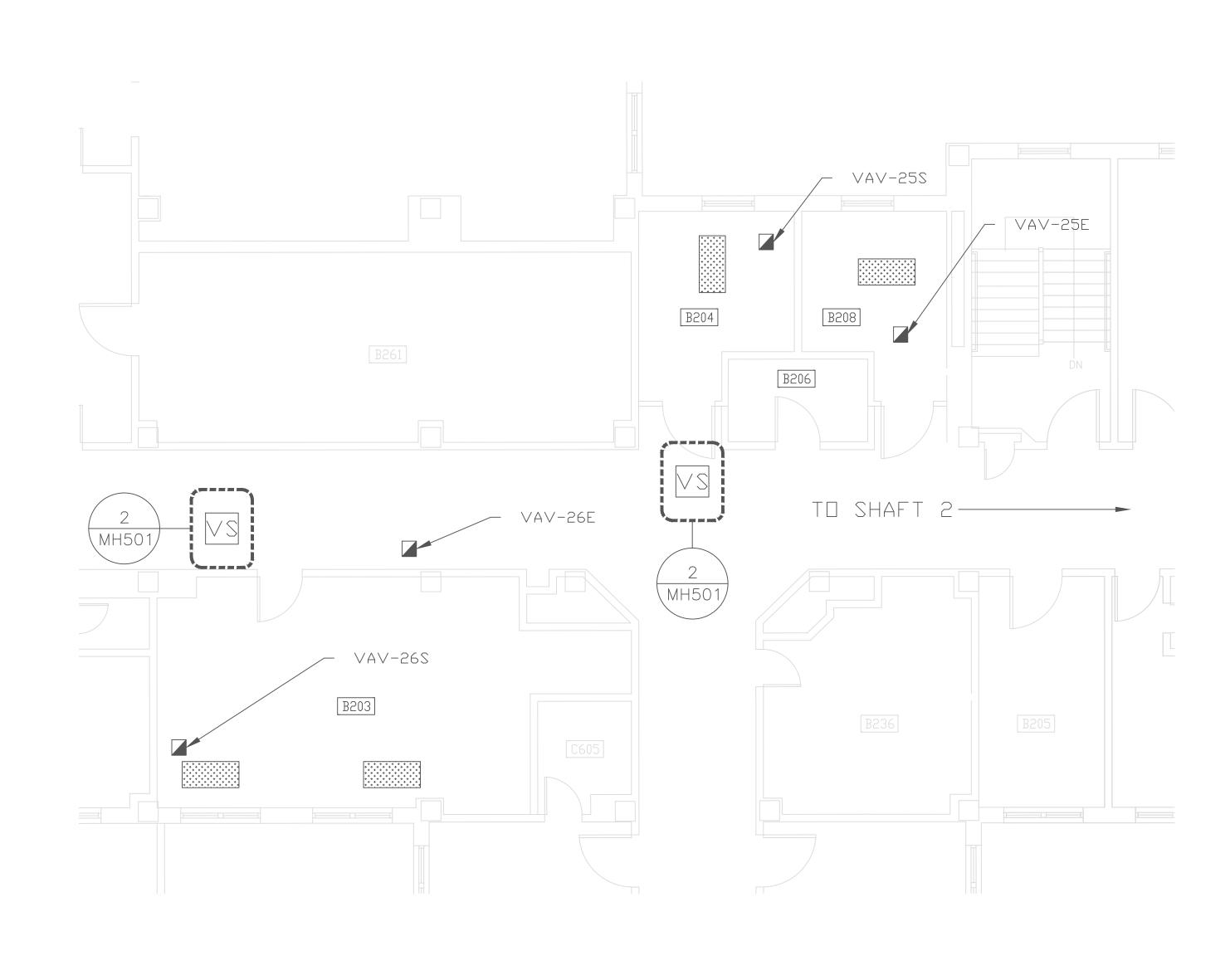












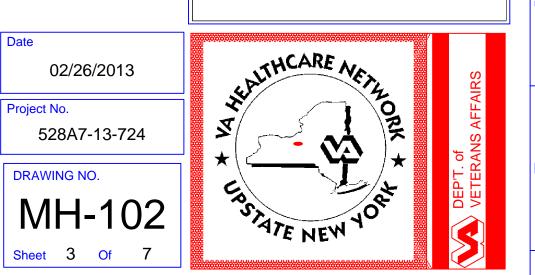
SCALE: $\frac{3}{16}$ "=1'

Date

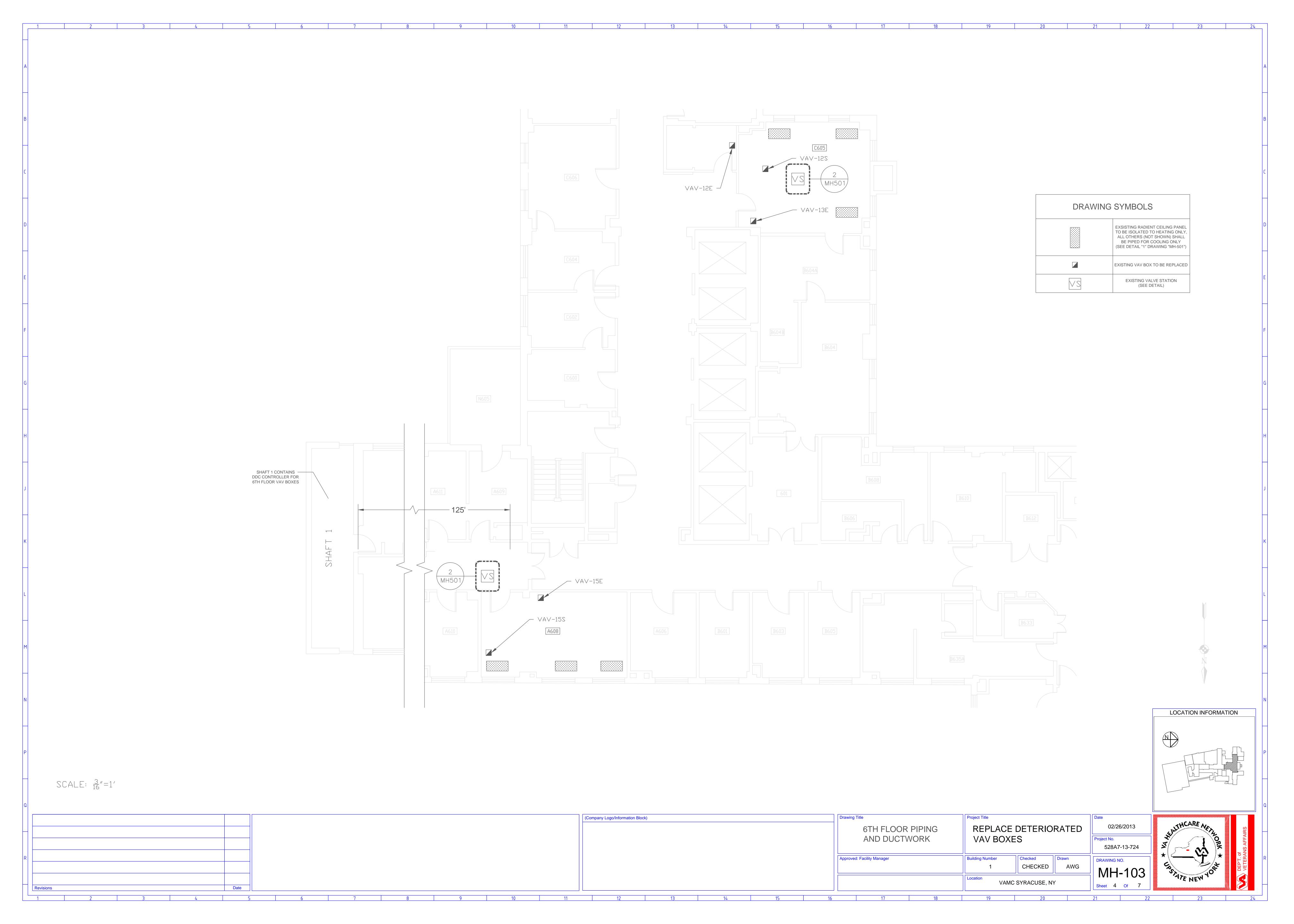


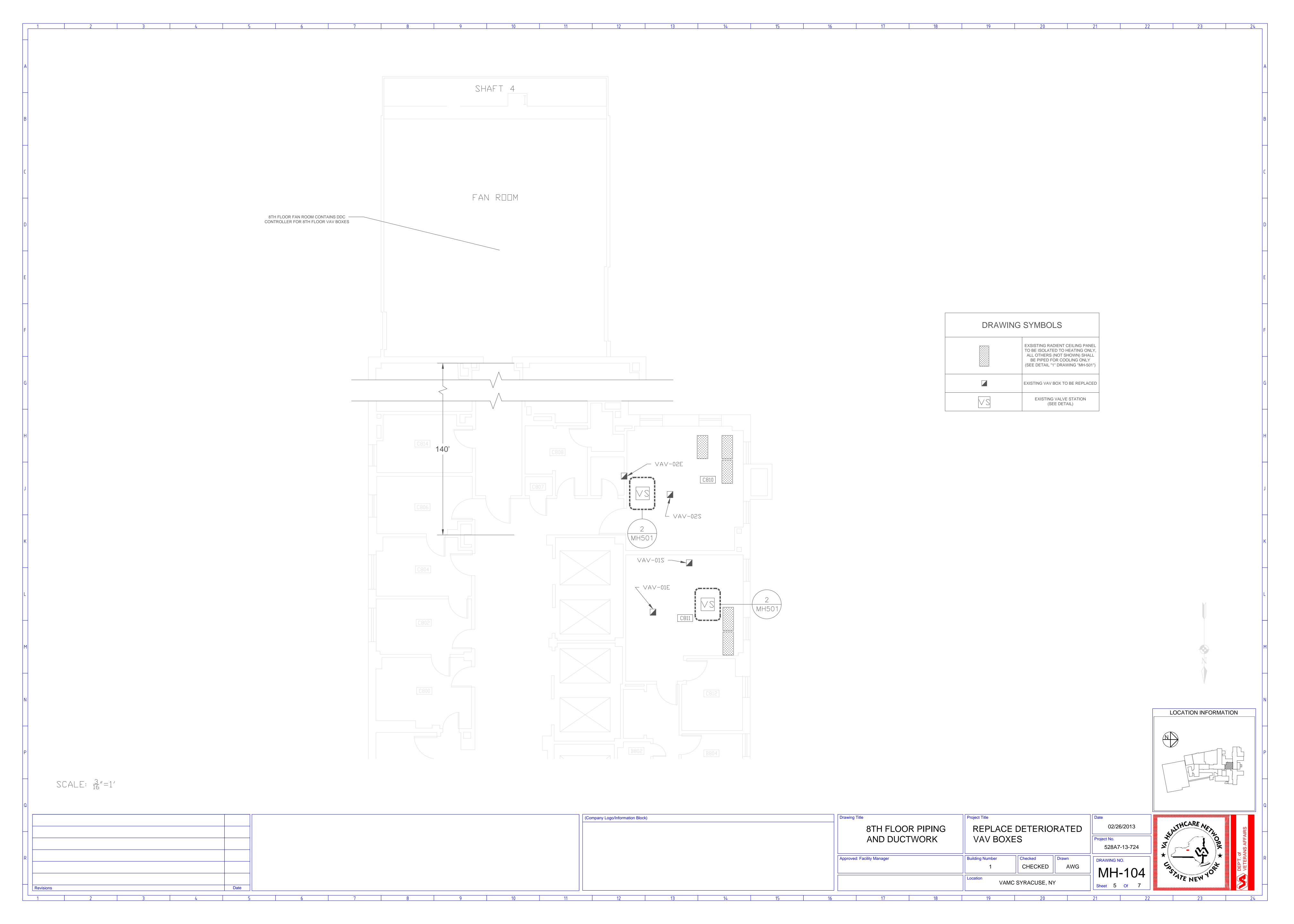
Drawing Title 2ND FLOOR PIPING AND DUCTWORK		REPLACE DETERIORATED VAV BOXES			
Approved: Facility Manager	Building Number 1	Checked CHECKED	Drawn AWG	DRAWING NO.	
	Location			7 IVII I I	

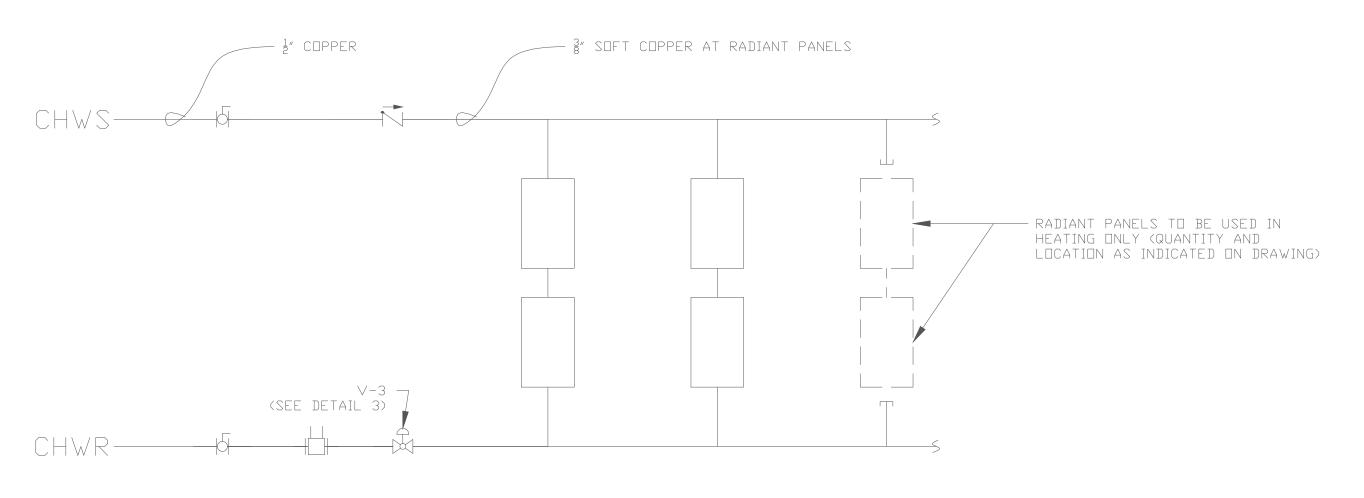
VAMC SYRACUSE, NY



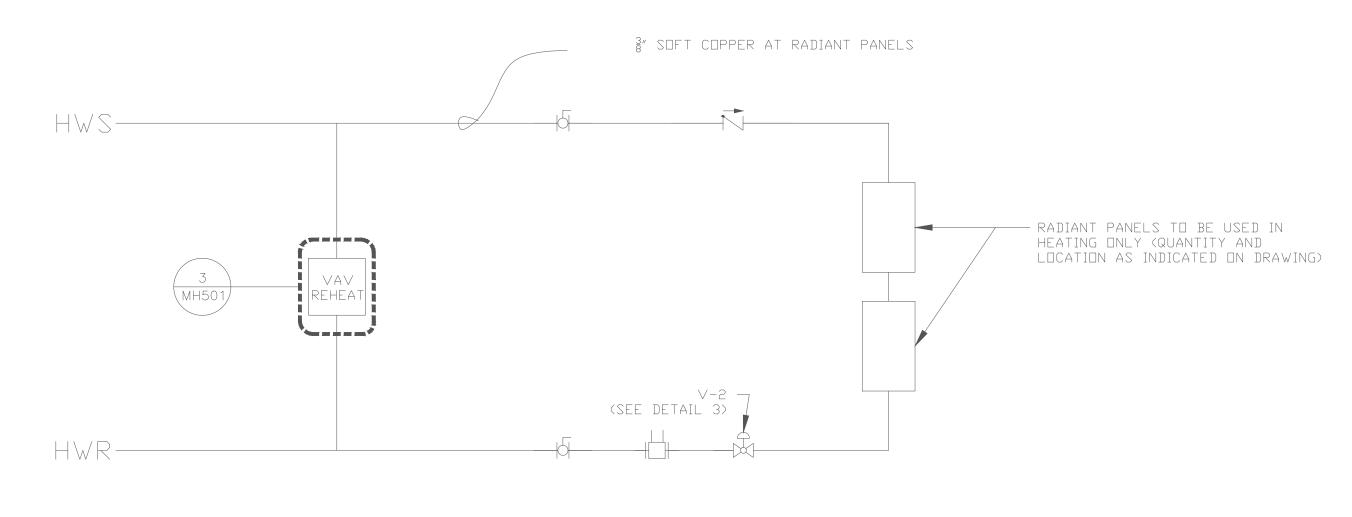
LOCATION INFORMATION





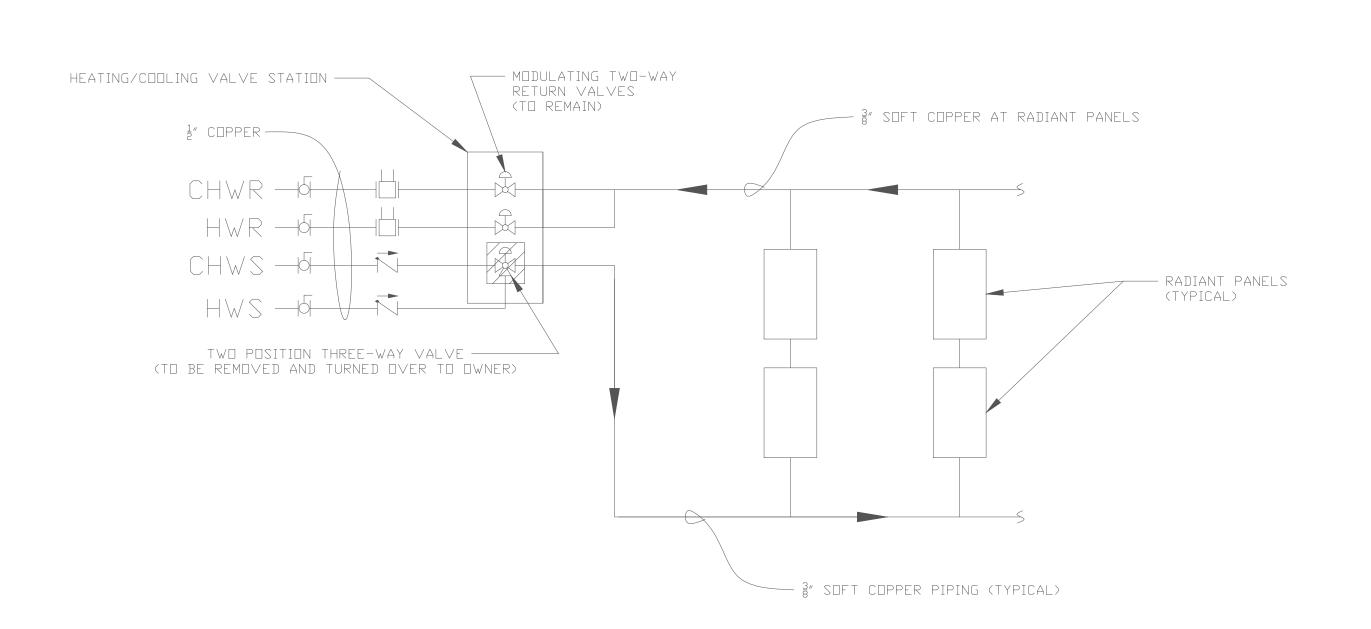


CHILLED WATER LOOP

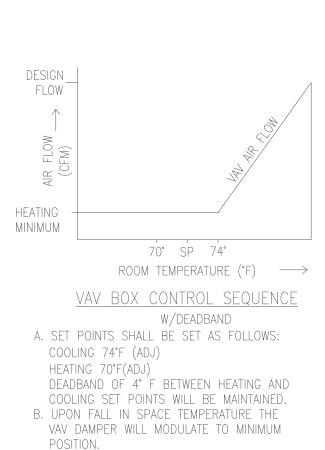


HOT WATER LOOP

PROPOSED HYDRONIC RADIANT CEILING PANELS -PIPING CONFIGURATION NTS





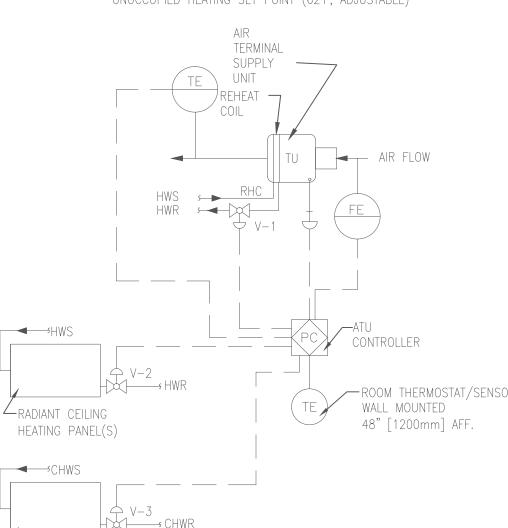


POSITION. C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT \pm .5° F. THE ADJUSTABLE TOLERANCE OF + .5° F HAS BEEN SELECTED TO PREVENT VALVE

D. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). VALVE V-2 SHALL MAINTAIN SET PÓINT \pm .5° F. THE ADJUSTABLE TOLERANCE OF \pm .5°F HAS BEEN SELECTED TO PREVENT VALVE

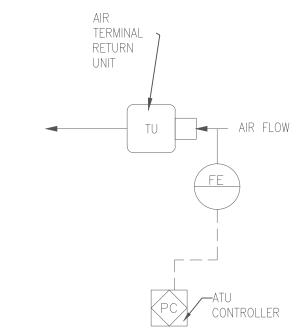
E. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE. F. WHEN COOLING SET POINT IS REACHED MODULATE V-3 TO MAINTAIN COOLING SET POINT G. UPON FURTHER RISE IN SPACE TEMPERATURE MODULATE AIRFLOW TO MAINTAIN COOLING SET POINT H. THE REVERSE SHALL OCCUR ON A DECREASE IN

SPACE TEMPERATURE. I. WHEN UNOCCUPIED MODULATE V-2 TO MAINTAIN UNOCCUPIED HEATING SET POINT (62°F, ADJUSTABLE)



VARIABLE AIR VOLUME TERMINAL 3 SUPPLY UNIT CONTROL DIAGRAM

RADIANT CEILING COOLING PANEL(S)



VARIABLE AIR VOLUME TERMINAL EXHAUST UNIT CONTROL DIAGRAM

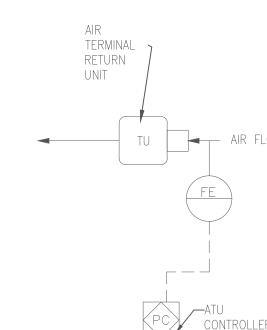
NTS

(Company Logo/Information Block)

LEGEND						
	RADIANT PANEL					
——————————————————————————————————————	MODULATING CONTROL VALVE					
	CHECK VALVE					
	CIRCUIT SETTER VALVE					
	THREE-WAY MODULATING CONTROL VALVE					
<u></u> 5	BALL VALVE					

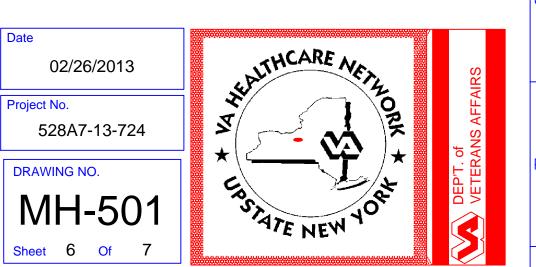
ABBREVIATIONS

AIR TERMINAL UNIT TEMPERATURE ELEMENT FLOW ELEMENT CHILLED WATER SUPPLY CHILLED WATER RETURN HOT WATER SUPPLY HOT WATER RETURN





VAMC SYRACUSE, NY



			CFM		INLET DIAMETER	OUTLET DIMENSIONS	LOCATION NOTES	BTU REQUIRED	BOX SIZE	# OF COIL ROWS	FLOW (GPM)	NOTES
VAV	ROOM	DESIGN	MIN	MAX								
01E	C811	360	130	500	6	8x12	ABOVE LIGHT		6			
01S	C811	360	130	500	6	8x12	BY DIVIDER	11664	6	1	1.2	
02E	C810	420	170	700	7	10x12	ABOVE LIGHT		8			
02S	C810	420	170	700	7	10x12	BY CAMERA	13608	8	1	1.4	
12E	C605	240	90	350	5	8x12	ABOVE CLOCK		5			
12S	C605	480	180	700	7	10x12	ABOVE MOTION SENSOR	15552	8	1	1	
13E	C605	240	90	350	5	8x12	ABOVE REAR OF DOOR		5			
15E	A608	380	160	500	6	8x12	ABOVE DOOR NEXT TO LIGHT		6			
15S	A608	380	160	500	6	8x12	ABOVE NORTHWEST CUBE	12312	6	1	1	
20E	C260	300	110	500	6	8x12	BETWEEN BACK LIGHTS		6			DEDUCT #1
20S	C260	300	110	500	6	8x12	-	9720	6	1	1.0	DEDUCT #1
21E	C216	240	90	350	5	8x12	-		5			DEDUCT #1
21S	C216	490	190	700	7	10x12	-	15876	8	1	1.8	DEDUCT #1
22E	C216	250	100	350	5	8x12	-		5			DEDUCT #1
25E	B208A	150	50	225	4	8x12	IN WOMENS RESTROOM		4			
25S	B208A	150	50	225	4	8x12	-	4860	4	1	0.5	
26E	B203	400	190	700	7	10x12	-		8			
26S	B203	400	190	700	7	10x12	ABOVE DOOR AFTER FIRE DOOR	12960	8	1	1	

(Company Logo/Information Block)

Date

NOTES:
1. BTU REQUIREMENT AND FLOW RATES CALCULATED AT THE DESIGN AIR FLOW RATE.
2. COIL PERFORMANCE SHALL MEET THE BTU OUTPUT REQUIRED AT THE DESIGN AIR FLOW RATE AND WATER FLOW INDICATED
3. PROVIDE SCRIM REINFORCED FOIL FACED INSULATION MEETING ASTM C1136
4. PROVIDE MOUNTING BRACKETS FOR CEILING HUNG INSTALLATION
G. PROVIDE DISCHARGE AIR TEMPERATURE SENSORS IN THE VAVS WITH HEATING COILS

Project Title REPLACE DETERIORATED **EQUIPMENT SCHEDULE VAV BOXES** 528A7-13-724 Approved: Facility Manager DRAWING NO. CHECKED AWG MH-601 VAMC SYRACUSE, NY